-<u>-:</u>.

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HIGHLY CONFIDENTIAL

DC 069484

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11-Jan-1996 13:28

FAEGUEST.H

void jumpingwhareicnast char "from;)
void aendActorast char "ecsivityStri;
void aendFrameiconast char "erom;;
void aendFrameiconast char "from;;
void takeJumpiconast char "from;;
void sysState[];
void sysState[];

void sendinto

// send into

void sendintofconst char *url);

void sendintofconst char *url);

. •uqı

26-5ap-1995 12:39 void rememberSandind *ad, User *u, const char *(romboc): // returns Ad 1D DwgnD queryAdSent (User *u, const char *fromDoc)/ // rememberad.h

A DOCTOR TRAD. N

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HIGHLY CONFIDENTIAL...

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01-Jan-1996 14:24

extern int barter, landev, testAd;

void latencywae (int n); void adgendTimewae(int n); void addent();

extern int adesents
extern int yeapTakens
extern int totalAdSendlatenCys
extern int totalAdSendTimes
extern int timeOutes

vold setStatus(const char 's)!

// status.h

FLATUS.N

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Page 1(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void sendErroriConnection 'c, const char 'mag, const char 'headerPield = 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protected:
BOOL sendFile(const char *fileName, const char *insertStr * 0):
               03-3an-1996 17:04
                                                                                                                                                                                                                                                                                                                                                                  DWOND get1P() coist ( return user1P1) const char' getRequest() const ( return of conscilor' getConn() const ( return cr
                                                                                                                                                                       enum Verb ( UNKNOWN, DET, HEAD, POST )!
                                                                                                                                                                                                                                                                        public:
Request(Connection ·c., Verb v.
Const char ·requestText.
const cockaddc_ink from);
                                                                                                                                                                                                                                                                                                                                                                                                                                    void sendinternal Serocili
                                                                                                                                               sinclude '/d/toolkit/sock.h"
                                                                                                                                                                                                                                                                                                                                           virtual void service():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Connection *C:
conet char request:
verb vi
cstring tileMamo:
DWGND weerl?;
                                                                                                      sit idefined _mcqukst_H_)
sdefine _mcqucst_H_
                                                                                                                                                                                                             class Connections
                                                                                                                                                                                                                                             class Request
                                                                 // requost.h
                               H.TETUDIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lendi
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Page 2(3)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else iff userAgent.Left(28) .. .Hicrosoft internot Exploret/" } {
// Hicrosoft internet Explorer/4.40
browser - brHicrosoft;
liftVerficonst char -) userAgent - 201;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else ill atrnempluserAgent, 'nolbrowser/', 101 .. 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clem iff userAgent.Left(its) ... Enhanced_Mossic/" ) {
browser - brEnhancedMossic;
liftVeer(iconst char *) userAgent * 16);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // OS
acchios, userAgent, "windows", osWin);
matchios, userAgent, "X11", osUnixUhknown);
matchios, userAgent, "X Window", osUnixUhknown);
matchios, userAgent, "X Window",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             else if userAgent.Le[t[i]] .. "MetCruiser/") (
littver(iconst char ") userAgent . 11);
browner - brhetCruiser;
os - osMin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       clse iff strncmp(userAgent, .iwENG/*, 6) .. 0 ) {
browser · brAOL:
                                                                                                                                                                                                                                                                 // derive information about the user from the request header
//
vold UseriiheaderDerive(const char *requestHeader)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clse if userAgent.Left[12] ... *NCSA Hossic/* ) {
browser - brNCSA;
iiftVor(((const chaf *) userAgent * 12);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     os - OsMin32;
match(os, uscrAgent, -Windows 95°, osWin951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else iff userAgent.beft(8) .. "HotJava/" ) {
browser - brhotJava!
                               10-Dec-1995 17:31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     liftveriftonst that 'I userAgent . 81;
                                                                                                                                                                                                                                                                                                                                                                                                         const char "us - strattifrequestHender, Chrowser);

[[[us - 0]] |

[us - 0]] |

[us - 0] |
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domainType - dtAOL;
ii(tver(iconst char ·) userAgent · 11);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                uniqueness - uNo!
domainType - dtAOL!
liftVqr([const_cher -) userAgent - []!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CString userAgentius. P - uali
[[[ userAgent.Left[4] -- *Hozilla/" ] {
broant - brweiscape;
[][tverlicomet.cher -) userAgent - 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if ( userAgent. Find("Win32") >- 0 }
os - osMin32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            const char *p * strchr(us, '\r')!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        browser - bradti
                                                                                                                    s .. userAgent.Laft (70) ;
messaga(a);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     un -- 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09 - OBMACI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08 - OfWins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cise (
                                                                         HEADER. CPP
                                                                                     Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          static void match (054 os, const char *userAgent, const char *pat, 09 o)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         book Useriicheck (EStringk userAgent, const char "pat, Browser b. 05 o)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CONFIDENTIAL
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                                                                                                                            20-Dec-1995 17:31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else iff userAgent.Pind('Macintosh') >= 0 } {
os - osMac') - osMacPPC!
satch(os, userAgent, 'ebK', osMacPPC!
match(os, userAgent, 'ebK', osMacGB)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else if! userAgent.Pind("13bit") >= 0 ||
if! userAgent.Pind("13bit") >= 0 ||
userAgent.Find("95") >= 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else iti userAgent.Pind(=WinNT+)_>- 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             alse iff userAgent.Find[wint6"] >= 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        else if ( userAgent.Pindi*Win95*) >= 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vold User::]][tOS(const CString& userAgent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff userAgent.Find(*X11") >- 0 } {
                                                                                                                                                                                                                                                                                                                                                                                                                                                        const char cBrowser() . "User-Agent:"!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   iff stratr(userAgent, pat) is 0 )
os = 0!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int i - strienfpath:
if userAgent.Lottill -- pat i {
browsef - b;
                                                                                                                                                                                                                                                                                                                           sincluda *stdsfa.M*
sincluda *objects.h*
sincluda */d/toolkit/lsf_util.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        const char 'p . userAgent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ice browser is brunknown leeturn FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  void message (const cher ')!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      p - 1,
p - strehtlp. '/'li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            itt p } {
11ftver{p · 11/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08 - 08Min32/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      os - oswini6/
```

return TRUE,

// header.cpp NEADER. CP?

return PALSEs

ļ

```
size (check(userAgent. 'Opmitteb', brObmitteb', caNEXT)'
check(userAgent. 'Opmitteb', brObmitteb', caNEXT)'
check(userAgent. 'Opmitteb', brObmitteb', caNEXT)'
check(userAgent. 'SPR', which britished C. caNin')
check(userAgent. 'SPR', which britished C. caNin')
check(userAgent. 'SPR', which britished C. caNin')
check(userAgent. 'SPR', which caned C. canin')
check(userAgent. 'SPR', which can')
check(userAgent. 'SPR', which can')
check(userAgent. 'Controlled C. britished C. can')
check(userAgent. 'Controlled C. britished C. can')
check(userAgent. 'Distance C. britished C. can')
check(userAgent. 'Title)
```

HIGHLY CONFIDENTIAL

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Page 1(1)
                                                                                                                                                                                                                                                                                                                                                    if( country -- 356 ) {
   if igetStateTimeLonein(o(etate, utc_offeet, daylight_biae) )
   return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // if timeRelative == 0, this assumes that they want the time // if timeRelative to the current time crtise = timeRelative; if (ittfine)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  alse (
bwold dubiss)

14 impCountryTimeZones.Lookup(country, dubiss)

return FALSE,
           23-Dec-1995 11:01
                                                                                                                                                                                                                                                                                     tm. Location: usarbelative lime_t time_telative )
{
                                                                                                                                                                                              TIME_ZONE_INFOPMATION i;
DWOAD r - GettimeZoneinformetion(al);
daylightSavings - r -- Time_zone_id_daylights
                                                                                                                    // next line should be in trutil.h
extern CountrylimeZoneMap mapCountrylimeZones!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            titime .. utc_offset . 60 . 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  utc_offset - LOWORD(dwBlas);
daylight_blas - HINORD(dwBlas);
                                                              sinclude 'stdefa.h'
sinclude 'objects.h'
sinclude '/d/toolkit/kmspstate.h'
sinclude '/d/toolkit/tsutil.h'
                                                                                                                                                                                                                                                                                                                                                                                                         else iff country -- 0 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return gmtimelåttfima),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HIGHLY CONFIDENT
                                                                                                                                                            etruct lebaylightSavings
                                                                                                                                                                                                                                                         DOOL daylightSavings!
                                                                                                                                                                                   jeDeylightSevinge!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              time (attima) s
                                                                                                                                                                                                                                                                                                                                int utc_offeet, int daylight_bise;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     bing_t ttfimes
                                           // location.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DC 069491
                        LOCATION.CPP
```

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(1) E .g. . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       --:.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // if a user record already exists, it's probably because
// this ip address is shared with other users (proxy, IP pool.
// etc.) So, we want to create another record; we don't want
// to assign the same coolie to different people!
u-vuserio - 0: // create new record
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // adjust constant as traffic increases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // sendi) should commit the DD If It does any DB operations because // the caller commits alsead of time so that the transaction won't // tenain open while the file is sent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // Normally we adjust 51 for an ad an it in delivered.
// However, occasionally should do all adm in case one hasn't
// See delivered but time ham passed.
static incounter?
// Adjust constant as traffic incre
                                                                                                                                                                                                                                                                                                                                                            if( //atrchrip. '/') -- 0 &6 Strchrip. '\\') -- 0 &6 Strchrip. '\\')
              16-3en-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold GelfequestiisendiDatabases db, Ad .id. User 'u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if tdb i= 0 1 {
   if iu->hasCookie } {
   if iu->cookieCapable() & iu->timcdOut }
   if iu->cookieCapable() & iu->timcdOut }
                                                                                                                                                                                                                                                                                                   !/( p == 0 ) {
// send default
sendFile("c:\\ien\\html\\default.htm");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // recalc SI for all ads
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // generate a cookie for the user
                                                                else Iff (libenamo.Left.(9) .. ./sysetato. 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // try again noon
                                                                                                                                                                                                                                                                                                                                                                                                                         CString ( - 'Cillianlihtmill'
                                                                                                                                   Const cher 'p . [ileName; const cher 'p . 'java/'. 6] .. 0 } [if atract(p, '...) -- 0 | aendFile(p);
                                                                                                                                                                                                            sendErroric, "404 Hot Found")!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       senderroric. .404 Not Found'li
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ( .. p;
sendfile(f);
return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CString hdr . cHeaders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  const SUFSIZE . 32000;
char but [bursize];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     counter . 1751
                                                                                                                                                                                                                                                                 1 ./. -- 4. 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Itt allFreett ! (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cookie sendCookies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         recalc51();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Crit citasti,
                                                                                                                                                                                                                                                                                                                                                         retutal
                                                                                              sysState() !
                                                                                                                                                                                                                                                                                                                                                                         elec 
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                                                                                                                                                                                                          0136
                                GETREGUEST. CPP
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                                       Page 1(8)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else (ff (lishame.Left(il) -- "/state.htm?") {
    sendErroric. 404 Not Found: Reulis forecast moved to 4nother server") /
    //stateficonst char *) [lishame * 11) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         else it! (liswame.tett(8) -- '/viovad/'') {
CString offileName!
cString offileName!
cstletter.ornet("c,/ian/ade/is", (LPCTSTR)(ileName:8);
                                                          18-Jan-1996: 17:11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This used to prevent multiple concurrent FTP requests right now because our FTPD implementation only does one at a time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           elsa iff fileName.Left[10] -- "/sendinto" | (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (illename - Carringiraqueet, p - requestir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ecivicy (const char . ) (ilenamo . 6).

activity (const char .) (ilename . 10)

ale [[ [liename.Left[1] ... /whoami ]

whoam! !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          const char 'p . strchrirequest, ' ')!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   it! (tlemamo.tott(4) ...'ad/" )
esnobd((const.chr.") (lleman.
ele if (lleman.tott(9) ...'odram
andFrame((const.chr.") (llemama
eleo if (tlemama.tott(6) ...'/jump/"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          extern const char .browserNames[],
                                                                                                                                                                                                                       include *getrequent.h*
include *cememberad.h*
include *cememberad.h*
include *10g.h*
include *dkcolkit/crit.h*
include *dkcolkit/crit.h*
include *dkcolkit/db.h*
include */dkcolkit/db.h*
include */dkcolkit/db.h*
include */dkcolkit/dbv.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         const that 'prognams - 'AdSvr',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DWORD startLatency, endLatenCy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sendfile ( sefileName );
                                                                                                                                                                                                ./d/toolhit/sock.h"
                                                                                                                                                                                                                                                                                                                                                                              extern CriticalSection (ast: //extern Database iaimain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void message(const char *)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void CerRequestiiservice()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ilename - request)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EXCERN HANDLE (LOMUTER!
                                                                                                                                                                                                                                                                                                                                                                                                                                extern ofstream erriogs extern int activitys
•
                                                                                                                                                     *tdafa.h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vold recalcfills
                                                                                                   // getrequest.cpp
                                                                            OFTAROURST.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         910
                                                                                                                                                            includ.
```

```
// (ii) content
test ec "chtmlebody bgcolor-ffffffechlocing SRC-\"lanlogos.gif\" ALIGN-\"BOTTON\">User Ino
(a) + 6vd
                               test << ..td>.ext se ..th).sgystem States/h).sp>';
test << ..exable border:1 cellpadding-l>';
test << ..traded-bysames/b>:/fd>std>sbypes/b>:/fd>td>std>tb>:/
test << ..traded-bysames/b>:/fd>std>std>sbypes/b>:/fd>
test << ..traded-bysames/b>:/fd>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CString hdr *
**HTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: *;
cher bwi[12000];
**buf - 0;
                                                                                                                                                   user 'user . UseriilookupUser(userIP, request, fALSEl?
                                                                                                       // Get a db connection to lock the ada array so that
// it isn't reloaded or anything while we are processing.
Database 'db o getfrompool():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             User *user . User: 100kupUseridb, userif, request);
user: 100kupAncilleryintoidb);
             18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             c-swrite( (const char *) hdr. hdr.CatLength() );
c-swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                           c-swritei (const char *) hdr. hdr.GatLength!) );
c-swriteibuí, n];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // diagnostic
vold GetRequest::jumpingWhere(const_char *(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int n . text.pcount();
blar temp[100];
itosin, temp.
lidr v. temp!
lidr v. '\r\n\r\n';
                                                                                                                                                                                                                                                                                                                                                                                                            // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                stratream text(but, 32000, losilout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                test << *chtml>cbody bgcolor=10
test << *cpre>*!
user-bdescribe(db, taxt);
test << *c/pre></body></kli>*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database Adb . .getfromfoolil!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ASSERT(FALSE):
// (ix for multi-db conns
                                                                                                                                                                                                                                                                                                                                               text << *</td>

text << *</td>
*

text << *</td>
*

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // diagnostic
                                                                                                                                                                                                                                                                                                                                                                                        int n . text.pcount();
char tempilool;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        delete user;
releaseToPool (1db) :
                                                                                                                                                                                                                                                                                                                                                                                                                  itos (n. temp. 10);
hdr -- temp!
hdr -- \r\n\r\n';
                                                                                                                                                                                                                                                                                                                       relesseToPool (db) ,
                            GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HIGHLY
                                 PAGe 1(8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -\r\nSet.Cookie: 1AF-Nix; path-/; expires-Mad, 09-Hov-99 23:39:00 GMT*, sendCookie.value);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DC 069493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // release DB here so that we don't keep a db connection oncupied
// while sending the ad
db.commit()'
releaseToYool(4db);
                                                                                                                                                                                                                                                          CFILE ()

Int n = 0;

If ( = 0.57 ) {

CERTING = -ad-s(ullHame());

If (I.Open(e, CFILe::modeRead | CFILe::ahareDenyWrite) } {

If (I.Open(e, CFILe::modeRead | CFILe:);

If (I.Open(e, CFILe:) ( CONEC Char *) *);

ASSERT(FALSE);
                                                18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 c-swiltel (const char *) hdr. hdr.GatLength() );
                                                                                                                                                                                                                                                                                                                                                                                                                                    n - gotylleSize( ed->(ullMamof) );
// maxt line is a test for MCSA Mossic HEAD
//n - l:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // [111] content
// cost 44, -- Alacbody bycolor-fifffffth/r/n"!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // last-modified time
// last-modified . . curMTPTime():
hdr .- '\r\nLast-Hodified:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                stratream textibut, 32000, tostrout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   u-shasGookie - TRUE!
u-smakePermanent (db)!
aendCpokie.value - u-sgetibl)!
                                                                                                                                                                                                                                                                                                                                                                                              n . f.Read(buf, BUFSIZE);
ASSERT( n i. 0 && n i. BUFSIZE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                //test //thPragmai-do-cache*1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    static char etypostrail . (
"Normal".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               endlatency . GetTickCount())
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g-parite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hdr .. .\r\n\r\n'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -lan Dev" ):
```

hdr .. tempi

retutal

CETARQUEST. CPP

```
(0)3 004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cursor c('db);
c.bind1801_C.LONG, tadvertiserID;
s.bind1801_C.long, tadvertisers where sitekey-';
addvalue(eq); sitekey, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 uner - UnerillookupUkerfidb, umerlf, request, TPUE, TPUEll
iff Ub -- 0 | {
page - 0;
                                                                                                                                                                                                                                                                                                                                                                                        Database "db " getfrombob()?

Database "User "Isokuplaer("db. userff, request)?

DMOPD advertiser(b 0)

// cdoi fix if not assigned a user ID. (use IP)?

// cdoi fix if not assigned a user ID. (use IP)?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff ok ) {
    .i.ec/lity***
    if advertiserID i* 0 |
    if advertiserID i* 0 |
    iogActivityluser. advertiserID. type);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iff from 16 straicmpifrom, "www.", 4) .. 0 }
[rom 1. 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void GatRaquaet::sendAdiconst char 'from'
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database .db . getfrompoolTimcout!);
                                                                                                                                                                                                                                                                       Const char q - strehrlp. ''ll
                                                                                                                                                                                                                                                                                                                              nitekey . Cstringip. 9 . pl:
                                                                                                                                                                                                static DWOPD lastFTP;
startLatency - GetfickCountil;
                                                           type . inforcest:
break!
cas: s:
type . s:
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oh . C. (etchHoxt () /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 delete useri
relesseToPool (db) i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         User *user:
SitePage *page:
Ad *ad:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            db-scommit(),
                                                                                                                                           defaulti
ok - FALSF!
                                                                                                                                                                                                                                                                                                                                                                                                 11 Ok ) (
                                        OETREGUEST. CPP
                                              Page 5(8)
                                                                                                                                                                                                                   CString hdr " oo OX/r\nContent.Type: text/html\r\nPregne: no-cache\t\nContent.Langth: ';
cher bu{132000);
                                                                                                                                                                                                                                                                                                                                              test es 'spres')

test es 'jumping from document: es from es 'Nth";

test es 'jumping from document: es from es 'Nth";

test es 'jumping from document cher e) ad-symmpto es "Nth";

es 'nt es hrefel" es (const cher e) ad-symmpto es 'Nth'Inth';

es (const cher e) ad-symmpto es 'stabl') ad-stullName() es 'Nth'Inth';

es (const cher e) ad-symmpto es 'stabl') ad-stullName() es 'Nth'Inth';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DC 069494
                                                                                                                                                                                          SitePage 'page - SitePage::lookupPage(from, request):
                                                          18-Jen-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c.swritel (const char *) hdr. hdr.GetLangthil l.
c.swritelbul, nl!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vold GetRaquest.ihetlivity(const char *ectlvityStr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // go sheed and eand for bast response time sendfile("C:\\lan\\html\\dot.gif'),
                                                                                                                                                                                                                                                                                                              // fill content // fill content top Redirect (/hl>*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void GetRequestiisandPrame(const_char *(rom)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char templicoir
iteain, tempi ioir // content langth
iteain, tempi
hdr · · tempi
hdr · · · rinicin'r
                                                                                                                                                                                                                                                                                 etretreem text (buf, 32000, toniout);
                                                                                               Ad .ad . AdiifindSentfoluser, from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                test of "e/prese/bodyse/htmls";
                                                                                                                                                                                                                                                                                                                                                                                                                                       CString in a dostileName:
text or "contersing arc=\"/"
a (const ther ") in
a ('ons')
                                                                                                                              1411 //
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // send the file first
ActivityType type:
Cstring siteMay:
BOOL ob - TRUE:
whiteh( setivityStr )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Caso .a.; intofcat;
broak;
broak;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             logJumplad, user, page):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int n . test.pcount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BOOF PAG - FALSE!
                                                                                                                              Area of the delay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             delete page;
delete ad;
delete usef;
                                                                          OUTNIGUEST. CP?
                                                                                                                                                                   returni
                                                                                                                                                                                                                                                                                                                                                                                                                       . .. 1401
```

```
waprintfibul. "no lamap 1d: 1s", user -- 0 7 999 ; [int] user->browser, [const chaf *- message[bul].
(e) e . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - =:-
                                                                                                                                                                                                                                                                                      User '1180r - Useriiloohupuseridb, weerip, requast, PALSEI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ad .ad . AdııfindSentToluser, from);
SitePage *page * SitePagerılookupPage(db. from, request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // Must do this so activity will be logged properly.
// See GetPequest.iactivity().
user.amakePermanent(db):
            18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                     iff from is atraiempl_from, "www.", 41 -- 0 )
                                               adsendlimeWas (endSend - peartLatency);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     s .. '\t\n'; sol Moved Permanently', 8); sendError(c, ')ol Moved Permanently'.
                                                                                                                                                                                     vold GetPequestiitakeJump(const char '_from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 from . CString(_from. p . _from):
                                                                                                                                                                                                                                                                                                                                                                                                      const char .p . strchr(_from. '?');
if(p -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ///(.cs.leave())
CString s - Location: ";
s - ad-sjumpTo:// - "?(rom-isf";
                                                                                                                                                                                                                     Database 4db . "getfromfool();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               logJump(ad, user, page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 deleta useri
db.commit (1);
releasaToPool (£db);
                                                                                                                                                                                                                                                        // jumpingWhere(from):
// return:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   //C.cs.enter();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        delete pager
delete ad:
                                                                                                                                                                                                                                                                                                                                                                                     CSering (rom!
                                                                                                                     // delete ad:
delete page:
                            GETREQUEST. CPP
                                     Page 7(8)
```

erriog et "Trying FTP\n"; erriog et " user" et user->getib() et '\n'; erriog et " browser" et browserwames[(int) user->browser] et '\n'; erriog et " url " et s et '\n';

sendErroric. "302 Moved Temporarily", #31

VERIFY! ReleaseMutex ((tpMutex))?

logadsendiad, user, page)!

db-scommit () / releaseToPool (db) / erriog.flush();

BOOL doffp - luser-stempuserObject() &&
iuser-steptried && user-suniqueness >- usikely && iuser-sprpxy &&
rand() < randcutoff && (startLatency - lastFTP > 6000);

static int randCutoff - 0, //RAND_MAX / 4,

// iff v == GET) {
// TRACE("get Ne\n", from):
// }

18-Jan-1996 17:12

page . SitePage::lookupPage(*db, from, request):

CITTHEQUEST. CPP - :: ad - AdiigetAd (-db. user, page, v - GET);

dw . wait For Single Object (It phutes, 0), dw . wait Timtout) {

// Nemember that we're doing FTP for user. Only do once. user-sitpTried - TNUS: user-supdateFTPTied('db):

lastFTP . startLatenCy!

waprintf (buf, "11x", user-sgatiD(1);

// Redirect - Location: ''
CString s - Location: ''
s - '(tp://206.4.219.6/''
char buf[10]!

Carring in . ad. sgetpileName();

HIGHLY CONFIDENTIAL

DC 069495

rememberSand(ad, user, (rom))
logAdSand(ad, user, page),
if (user-stimedout) {
if (db -- d)
poolTimeOuts...

// this function calls releaseToPool()

// update Si every 4 or so deliveries

LimeOut sor!

```
16-Jen-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Advantis",
-Concentric Pesearch Corp.",
-CRL",
-WKI",
-Portal Information Hetwork*
                                                                                                                                                                                       0.0.0.0.0.0.0.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    const char .salesStril . (
                                                                                                                                                                                                                                                                                                               const char .iSpitamesti . (
                                                                                                                        .Coulo.
                                          OBJECTS.CPP
                                                          Page 1(9)
                                                                                                                                                                                                                                                                                            .....//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIGHLY
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                                                                                                 16-Jan-1996 10:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        const cher .uniqueNames[] . {
.unknown., .wo., .unikely., .tikely", .ves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ** Pleast All Sales of the sale of the sal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             const char .browserNames!! . (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rateruiser".
-IBM webEaplorer".
-AIR wesic/Spry Mossic".
-Macwab".
-Macwab".
                                                                                                                                                                                                                                                                        H. wjepie. epnjouis
                                                                                                                                                                                                  // objecte.cpp
                                                                                                                                    OBJECTS.CPP
```

```
Page 4(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   w.email ... cmsilAddri
w.i.pullEmaili) ... select gender.fnamel.inamel from listings where emaliname-'f
if is l.domain.isEmpty() }
cler sqillols i ... select gender.fnamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.inamel.iname

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if c.fc(chNaxt() ) {
if g.dc(chnyth() )
gender g.cc(x(t))
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domaintype - dtunknown;
// forf int i - 0; i < MAXSICS; i --
siccodes(i) - 0;
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if !cmallAddr.IsEmpty() ) {

// get name/gender

Cursor c(db)!

CString 9.(.!!
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IshocyorkDescription • FALSE:
(tpTried • FALSE:
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bveri - bveri - 0;
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                               OBJECTS. CPP
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(byer2 >- 1 ||
byer1 > 1);
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sinclude */d/cooksit/db.h*
sinclude */d/cooksit/db.h*
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sinclude */d/newaderive/sig.h*
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domainType - dt Prodigy;
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int nAdaili
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                                                                                                                   .10pm-11pm".
                                                                                                                                                                                                                                 ·Saturday
                                                                          OBJECTS.CPP
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"select domain_type.sales.num_employees.aic.country.state.zipcode.areacode from networks.cursor c(db):
if( domainType e dtAOL ) {
    c.bind(50L_C_LONG. &domainType, sizeof(domainType)):
    c.bind(50L_C_LONG. &adeavolume, sizeof(aslasVolume): asleaVolume • 0:
    c.bind(50L_C_LONG. &baleaVolume, sizeof(nEmployees)): nEmployees • 0:
    siccodes.bind(c):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ercepy (buf. "select country, state, zipcode, areacode (rom networks where netnumber-");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . // Hotes do the following for all domain types to at least get country.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     c.bind(SQL_C_LONG, &location.country, sizeo((location.country));
c.bind(location.state);
c.bind(location.zpcode);
c.bind(SQL_C_LONG, &location.arcaCode, sizeo((location.arcaCode));
f(f timedout := 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     iff uniquences .. uUnknown && (int) domainType >- (int) dtAOL )
uniquences - uUnlikely;
                                                                                                                                                                                                                                                                                                         "select interest level.Category.name from interests.user_interests)
where interests.id-interest_id and user_id-lid\
order by interest_level DESC*. userID!!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nEmployees • 0!
sicCodes.makeNull!!
if domainType !• dtNetcom && domainType !• dt!SPOther ! {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // got dt from header info, // got dt from header info, // if isyplosp, location and males, etc. don't apply. // if we have done a tracert, location does apply. // if we have done a tracert, location does apply. // if or ispa/0SPs, if divercom lift domainType :- dtwetcom lift domainType :- dtwetcom lift domainType i-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void Userii_getHetworkInfo(Databaeca db, BOOL ·timedOut)
16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              test as bull test of dead or "Irln";
                                                                                                                                                          tlevel. 4);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        iff domainType to dtUnknown ? [
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                while ( c.fetchweat () ) (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NetworkNumber Di
n = justHetworkNumber(fp);
                                                                                                 Carring desc.
Cursor c(db):
c.bind(SQL_C_LONG. 6
c.bind(catagory):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              c.exec(bul);
if(c.timedOut())
.timedOut - TPUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C. BELTIMEOUT (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C. (CCChNext () ,
                                                                                                                                                                                                                                                                             char sq1[512];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Iff Ip .. 0 1 {
ASSERT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 db.commit ();
                                                                                                                                                                                                                                                c.bindidesci
                            OBJECTS.CFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :
:::::::
                                            Page 5(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  //domainName
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HIGHLY
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test es "absbue, name;
(b» es (const char e) d-addreneles es (r\n";
test es "absdofteses" e/b» es (const char e) d-addreneles e \r\n";
[cel int i = 1, 1 e MADDF; iv. ]
[cel int i = 1, 1 e MADDF; iv. ]
[[i id-addrene(il-is@mpty!)]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ** (const char *) d->address(i) 44 *\r\n*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   test 44 "throw are interested in the following:4/b>\r\n\r\n":

test 44 "abytow are interested in the following:4/b>\r\n\r\n":

test 44 "interest Level Category Description\r\n":

test 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff d .. 0 ) |

Leat 44 "415HO company information available.4/15";
                                                                             16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 teat 44 "lass than SIMM (unknown)"; delete d:
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test 44 "abygondor:

Il( gender -- "" | ] gender -- "" |

test 44 "Hile" |

test 44 "Hile" |

test ( Hile" |

test 45 "Hile" |

test
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          test es trinchono. empl.: «/b>*)
if inbeployee :
test es nEmployees;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4/ps/t/u.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Domain ed - Domain (1p) ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fort i = 0; i = MAXSICS; i++ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Leak es plane thon 25 (crack es viring) (crack es exbrevenue; crack es exbrevenue; cracket es expression es expres
                                                                                                                                                                                           teat or obslocation: (/bs-)
iff location.country -- 256 l |
teat or ousk-)
lese {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          teat 44 * ebsindustries:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    test 44 salesvolumes
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CString categorys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            text or "Female";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         test 44 '\r\n'!
tost 44 '\r\n'!
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(6) y -0+4

OBJECTS.CFP

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Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // SitePage
                                                                                                                                                                                                                                                                   // coldn't find user record, we will need to // coldn't find user record. Do not load by IP, because // assign a new cookie. Do not load by IP, because // assign want this user sharing a record // with others without cookies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if( loadbemographics && i_timedOut )
u->_getNetworkin(o(db, realTime 7 ku->timedOut 1 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           errog se 'lindsentTo (e)led uniqueness-likely\n':
errog se user: se user:De '\n';
errog se 'lrom doc: se fromboc es '\n';
                                                                                                                                                                                                                                                                                                                                          //
// Note: generally, this shouldn't happen.
cookie.value = 0;
           16.Jan-1996 18:10
                                                               dies {
// lookup by cookie

u - lookupuserbyio(db. cookie.value, tmout)?
if( u ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1fl badkeyErrorAd && ødNum .. badkeyErrorAd-sid ireturn badkeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ad. Ad::[indSentTo[User *user, const char *[romDoc]
                                                                                                                                                                                                                                                                                                                                                                                                                                     DWORD adwum = queryAdSent (uner, fromboc);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  forf int 1 = 0; i < nAde(); i++ ) {
Ade ad = *eds.GetAt(i);
iff ad.id =* adNum }
return new Adlad);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff user-vuniqueness ve utikaly ) (
                                                                                                                                                                                                                                                u-suseriD - cookic.values
                                                                                                                                                                                                                     u-suniqueness - ufest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iff u -- 0 } {
// make a default user object
                                                                                                                                                                else (
if defaultAdsMade ) {
// db conn down
u - new User;
                                                                                                  u-suniqueness - uves:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               u.,headerDerive(requestHdr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 u.stimedout . _timedouts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       u.sip = 1p;
u.shasCookie = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           u - new User;
//u->uniqueness - uNo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if( icookie.iaNull() )
u->hasCookie - TPUE;
                                                                                                                                                                                                                                         idi . dic.n
                                                                                                                                                                                                                                                                    ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       idi - dice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return u,
                     OBJECTS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              yeer UserillookupUserfDatabasek db, DMOPD Ip. const char *requestHdr, BOOL loadDamographics. *
                         Page 7 (9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DC 069499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // Try to get domain info at least. Note: if user is uniquely // Try to get domain info at a process will create a record for the // identifiable, derive data process will create a record for the usering are as soon as it gets a chance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // 100kup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // get cookie for lookup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DROPD userID - networkNodeTable.getUserID(1p, FALSE);
                                   16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  const char "cky - stratrirequesthdr, cCookle);
                                                                  // don't know location, except country
location.state.Empty!!!
location;sipCode.Empty!!!
location;areaCode • 0!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOOL_timedOut = &db == 0;
BOOL_timedte = resifine ? &_timedOut : 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        User* User: __lookupUserByAddress(DWGRD ipl
                                                                                                                                                                                                                                                                                                                                                                                                                           J. .. 'JE :.. JOONUPUSETBYID (DAGRD USETID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cookie.getfromHeader(ck, *1AF*);
                                                                                                                                                                                                                                                                             void Useriilitver(const char vverStr)
|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return _lookupUserByID(userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             u-sip - ip;
u-suserib - cookie.value;
u-stimedout - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if ( icookie.isNull() ) (
if _ timedout ) (
u _ new Useri
u _ new Useri
                                                                                                                                                                                                                                                               const char cCookie() . 'Cookie:";
                                                                                                                                                                                                                                                                                                                        int v1 . 0, v2 . 0;
secanfiverSEr.
44.40. 4v1. 4v21;
bVer1 . v1;
bVer2 . v2;
                                                                                                                                                              alcCodes.checkHull();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Usar ou - new Usars
return us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       extern defaultAdeModes
                                                                                                                                                                                                                                         III ide(ined(_DERIVE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cockie cockier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if ( weerld )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10 - 0. 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return 0,
                                                  OBJECTS.CPP
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.90 2 (6)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // Hoter any matching required for nontergeted ads can be placed hore.
// since this function is called for both targeting and untargeted
// ads.
                                                         "update exposures set exposures-exposures-1 where ad_id-';
addalueled, id. FALSE!;
arcet[eq], " and user_id-';
addvalue[eq], user-yet[D[), FALSE);
db.exer[eq]!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BOOL VI
BOOL found - targetSites.Lookupfsitepage-saiteID, V);
iff includeSites | |
iff includeSites | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   is a tepage . 1 o listepage . 2 o listepage . 2 o liste a tepage . 3 o liste a tepage . 4 o listepage . 5 o liste a tepage . 5 o listepage . 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // impressions OK?
if ( nShown >= maximpressions &k moximpressions != 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // If we have pages to target too, ok if pite // doesn't match (check if page does next). if itond it target Pages. I pEmpty() | return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // excluding this page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Does user and site match this ad's criteria?
BOOL Adimatches[User 'user, SitePage 'sitepage)
                                                                                                                                                                                                                                                                                                                                                                                     addvalue(aql, id)!
addvalue(aql, user-sget10(), FALSE)!
atreat(aql, ",1)"!
db.exec(aql)?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff impreadevenly() is at v. 1120 return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // Operating system DWORD o - 1 < ((int) user-ros);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // is start time met?

[[ istarted ] {
    time t now]
    ii time (inow) < startTime }
    return FALSE;
    started < TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    000L AdiispreadOX(SitePage *sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     iff itargetSites.lsEmpty() ) {
   if( altepage -- 0 )
   return FALSE)
                                                                                                                                                                                                                                                                                                                                                return FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               elbe iff found l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return PALSEI
                                                                                                                                                                                                                                                           return TRUE,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return TRUEs
                                                MATCH.CPP
                                                         Page 1(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONFIDENTIAL
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c.bind 60L_c.LoNG, in, sirsofin) 1;
c.bind 60L_c.LoNG, in, sirsofin) 1;
char sql 1912;
addvalue(qi, 1d. frust);
addvalue(qi, - and user_id-*);
addvalue(qi), user-yetib();
ph.SE1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if { | region.state.isEmpty() && stricmp(state, region.atate) 1- 0 } return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff region.areaCode 1. 0 & areaCode 1. region.areaCode 1 return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // sip myzip - tipCode.Lett(5); // etrip zip+4 for now Carring regilp - region.zipCode.Left(5); carring regilp - region.zipCode.Left(5);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ifi region.country 1. 0 &k country 1. region.country )
return PALSE;
                                                                                        18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DC 069502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return mylip .- regilp th mylip .. regilpEnd:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         goot AdiisaposuresOK(Databases db, User -user)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Returns TAUE if this location is in region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               book tocation vin (const pagions region)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      iff frequency -- 0 || 4db -- 0 |
return TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TACE ("serid-0)\"");
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      itt region.zipCode.isEmpty() |
return TRUE,
                                                                                                                                                                                                                                                                                                iff regispend.isEmpty() ) return regisp .. mylb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ound - C. (etchWest ())
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if ( n » (requency )
return falski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                seriesMost . n . 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char sq1[1024] -
                                                                                                                                                                                                                                                                                                                                                                                                                                     ektern Ad •defaultAd;
extern Ad •badkey&rrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seriesHeat - 0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) ( puno) ) !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          extern int neathds
                                                                                                                                                                                                  // Ad Metching!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int hi
                                                                                                                                                                      // match.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ine nade(),
                                                                                                                MATCH. CPP
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Page 416)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ·.
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // todor 1f reload ads. need to handlo the fact that
// one may still be in use and can't just delete.
// (Crit sect released during sending of file.)
//
// AdvigetAd[Databases db, User 'user, SitePage 'page, BOOL increment)
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return FALSE,
sitepage-sloadCategories(), i.e. )
(or i int i = 0, i = sitepage-scategories.Got&ise(), iv)
i(i sitedegories.Lookupisitepage-scategories.GotAt(i), v) }
return TPUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inline BCOL AdiicriteriaOKiDatabasea db, User •uner, Sitefage •pagel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // Do a test ad, if appropriate. Always do these first so that
             18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return spreadokipage) &&
(iistargotedi) ||
(matches(user, page) && exposuresOk(db, user))
);
                                                                                                                                                                                                                                                                                                                                                                                                                                         // Site and page categories
// Do last, because this is expensive (disk hit)
iff initeGategories.laEmpty() }
                                                                                                                                                                                                  SICCODE PALCETA - AICCODEP());
USET->BICCODES.TESET();
SICCODE SC:
VALIE ( USET->BICCODES.GERNAR (SC) ) {
    if ( partern.marches(SC) ) {
        ch . TRUE;
        ch . TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nextAd . (nextAd . 1) \ nAds();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if ( user-vuniqueness « ulikely )
return defaultAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if( phgg -- 0 ) {
   if( badkcyErrorAd )
    return badkcyErrorAd;
   ASSEPT(FALSE);
                                                                       const int start . nextAds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ili eitepage .. 0 i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUST SIMAX - 10000000
                                                                                                                                                                                 return FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ill increment 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int lovestSii
Ad *adlovestSii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return FALSE!
                                                                                                                                                                                                                                                                                                                                                        break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return TRUEs
                                                                                                                                                                                                                                                                                                                                                                                         ::
                               HATCH.CFP
                                  Page 3(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // if iSP, don't know location (yet)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // hour of day / day of week / day of week // day of // fil daysofweek /* 0x7f ) {
                                                18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ( (houreofbay & () << t.>tm_hour)) -= 0 | return PALSE, | | (dayaofweek & () << t.>tm_wday)) -- 0 | return PALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             user->location.userRelativeTime();
                                                                                                                                                                                                                   // DomainType
int userISP • 0;
int dt • (int) user->domainType;
it( dt »- (int) dtisPocher ) (
userISP • dt • (int) dtisPother • 1;
dt • 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // 8 employees - oxyllilitt ) {
    it ( ox nomployees) - o
    it ( ox nomployees) - o
    return YALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // sales/olume to Orf(((((()))))
(() sales/olume to Orf(()))
(() to teles/olume) == 0 )
(() to teles/olume) == 0 )
                                                                                                                                           0 = 1 44 ((int) user-browser);
if( [0 & browser) ** 0 l
return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                               else (
0 - 1 ee dts
11( (0 & domainfype) -- 0 )
return FALSEs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ( labbobutefine() } { / EST time relative time_t nov!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     t . localtimo(tnow);
                                                                                                                                                                                                                                                                                                                                      o = 1 44 userISP,
iff (o & isp) == 0 l
return PALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // location
if locations !- 0 ) {
if useriSP }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return PALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff tok )
return FALSE:
                                                                                      iff to 4 os) .. 0 l
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -
                                                                                                                                                                                                                                                                                                                                   181 //
                                                            MATCH.CPP .
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i . start:
while [ 1 ] {
    Ada ada:GetAt[1);
    Ada ad.type -- lanbev it ad.criterlaOk(db, umer. page) } {
    1/ found a good one
    adLovestSi - tad;
18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // do either a barter ad or an ian dev ad
// do either a barter ad or an ian dev ad
static int counter;
siti..ccounter % 5 - 0 i
// do an ian dev ad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        [ . (| . 1) % nAde()!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   i . {| . 1) \ nAde() \
|[{ | . | start |
| break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lowestS1 . ad.si:
                                                                                                                                                                                                                              1 . (1 . 1) \ nAds();
[f( i .. start )
break;
                                                                        adlovestSI - sads
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                        HATCH.CPP
                                 Page 5(6)
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while [ 1 ] factor of the state of the sta
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                                                                                                                                                                                                                                                                     // just try every 4 to save CPU
                                                                                                                                            // a truly random distribution is used for them rather than static int tesfcounter!

If .testcounter h 4 - 0 ) { // just try every 4 to 8 | // just try every 4 to 9 | // just try every 4 to 8 | // just try ever
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // todo later, if ade ero sorted by e; (lowest tiret).
// you can quit matching se soon as you find
// one. Could be a good optimization.
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// bies in favor of targeted
ii( lowestsi -- 1100 )
lowestsi -- 1
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It ...counter al 1 | // for ade with no booking amount.

// for ade with no booking amount.

// allow a tergeted ad to run sometimes

if lowestil -- 1100 }
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|[[ i -- start }
|breek;
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[( 1 -- start )
break;
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adlowestsi - defaultAdı
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                                                                                                     MATCH.CPP
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return TRUE,
REQUEST. CPP
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sinciude */d/cobikic/sock.h.
sinciude */d/cobikic/isf_util.h.
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char bullDUFSIZG · 2601,
CFIIG f.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sit defined(_iAF)
extern dietresm *outlog;
void impression();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               extern Catring gratuitous,
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ginclude eletream.h>
rendit
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int spider . 0,
                                                                                                                                     // request.cpp
                                                                    AEQUEST.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        send!
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Page 2(3)
                                                                                                  if( v = CET || v == POST | {
   if it.Open(IllaName, CFile:ImodeRead | CFile:IshareDenyWrite, efe } {
   if it.m.cause == CFileException:Iscreasofied }
   sen@Froric, == 404 Mor Found (Access Danied) *)
   sen@Froric, == 404 Mor Found (Sharing Violation) }
   sen@Froric, == 404 Mor Found (Sharing Violation) *);
   sen@Froric, == 404 Mor Found (Sharing Violati
                        03-Jan-1996 15153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          c->uritee( (const char *) hdr, hdr.Gettength() );
i(t v ** GET || v ** POST |
c->urite(huf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int 1 - atrien(insettStr);
memmove(p · 1, p · 1, atrien(p·1));
memmove(p · insettStr, l);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if( isspider ) {
  if( gratuitous.isEmpry() ) {
   if( defined(_CONSOLE)
        cout << * gratuitous empty. (?) \n*;
   ifendif</pre>
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p .. gratuitous.GetLength();
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                                                                                                                                                                                                                                                                                                                                                                                                                               sendError(c, *404 Not Found*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    atrcpy(p, **/BODY>*/HTML>*);
n = {p - buf} + 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // HEAD

n getfilesizofflewamo);
iff in 0 1 |
sendErrorfc, 404 Not Found");
return FALSE;
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| else | console}
| else | consoles
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     n . (.Peadibuf. nursize);
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itoain, temp, 10];
hdr -- temp;
hdr -- '\r'n\r'n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                isspider . FALSE
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CONTERTONTEAT

DC: 069505

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Page 3(3)
                                                                                                                                                                                                                                                                                                                            const char *p - (ileName;

[[( *p -- ')' ]

[[( *p -- 0 ) |

[( *p -- 0 ) |

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CString ( - 'jakld(')
//CString ( - 'ki\\my documenta\\ad (ederation\\')
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                                                                                                                                                endEcroric, "404 Hot Found");
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eandFile(f),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return hey.useriff * key.fromHash;

// default identity hash - works for most primitive values

// return (Ulint) lvoid*) [DMORD] hey) >> 4/
                                                                                                                                                                                                                                                                                                                                                                                 return userio -- k.userio &s fromkash -- k.fromkash:
           29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chapekey, Kcyk, Value, Valueko senti
                                                                                                                                                                                     // this is a test
ctatic int ct:
sdetine inCrit { ASSERT(cre-0); cre-; }
sdetine CUTCRIT { ASSERT(cre-1); cr--; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void remember(Keys k, DWORD adiD);
DWGRD lookup(Keys k);
                                                                                                                                                                                                                                                                                                                                                                goot operator--(const Key& k) const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void setfromiconst char 'from'
                                                                           Binclude *stdsfx.h*
Linclude *objects.h*
ginclude *rememberad.h*
pinclude */d/toolkit/hashwf.h*
sinclude */d/toolkit/crit.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (romliash . hashwf (from) !
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Page 2(2)
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{
         29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // too much?
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                                                                            DWORD now . i.GatlickCount ();
POSITION p . sant.GatStartPosition();
while () !
Key k;
                                                                                                                                                                      vold Hemory: iremember(Keyk k, DWDRD adID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONST LIMIT - 1000 - 60 - 60 - 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ( sent.CetCount () > SZ ) {
mossage (*remember map > SZ*);
                                                           //DWORD hash(const char *from, User
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sent.GetNextArsoc(fr. k. v);
if now - v.time > LIMIT )
sent.RemoveKey(k);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         k.setlD(u);
k.setfrom(fromDoc);
memory.remember(k, ad->id);
// OUTCRIT
                                                                                                                                                                                                                                                                                                                                                                              value value;
if eent.Lookup(k, value) } {
return value.adSent!
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K.setfromi(fromDoc);
ONOPD d * memory.lookupik);
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v.time - i:GetTickCount();
sent.SetAt(k, v);
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                                                                                                                                                                                              // todos nonunique hashes
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// INCRIT
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                    REKEKBERAD. CFP
                                                                                                                                                                                                                                                                                                                                                                                                                            return 0,
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Page 3101
                                                                                                                                                                                                                                                                                                                                                                                                                    // Ads
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.schorn, sirco(ad.mshown);
.startfime, sirco(ad.nshown));
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LONG, and hoursolony, sireo((ad.hoursolony))/
LONG, and daysolweek, sireo((ad.daysolweek))/
LONG, and comployees, sireo((ad.nomployees))/
LONG, and asleavolume, sireo((ad.esleavolume))/
LONG, and settive, sireo((ad.active))/
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                                                                                                             ads.RemoveAll();
dcfaulthd - 0;
ok - loadhdslads, 0, TPUE, TRUE, FALSE, FALSE);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bind (SQL_C_LONG, &ad.approved, sizeol (ad.approved));
bind (SQL_C_LONG, &ad.nJumps, sizeol (ad.nJumps));
         19-Jan-1996 10:13
                                                                                   Of i c ads. GetSize(); iv. )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // ... TODO!!! This function is not thread-safe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for[ int i . 0; i . ada.GetSize(); i...) (
Ada ad . .ada.GetNt();
ad.calcSi();
                                                                                                                                                                                                                                                           iff ok 1
message ("Ad reload completed Ok");
else
                                                                                                                                                                                                                                                                                                                                         // note: this isn't getting called yet
                                                                                                                                                                                                                                                                                              message("Ad reload (ailure!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         class Adcursor i public Cursor
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                                                                                                                                                                                                                               S1 eep (50) ;
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AdCursor()
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                       Page 1(8)
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// (Correspeting, update AdiitargetSites to reflect
// it Correspons
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// order from nevest to oldest
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                                                                                                                                                                                                                                                 // this ad displayed if a bad sitekey is encountered const chedkeyAdiD - 49/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // This is temporary. Used for non-unique usars.
// Eventually will be smatter about what to send to
// these users.
Ad -defaultAd - 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // iff listmain.Open(O. FALSE, FALSE,
// Open(O. FALSE, FALSE,
// Feturn PALSE)
// return PALSE
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                                                                                                                                                                                                                                                                                                                                                                                                       static int uctols;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BOOL activeonly, //
BOOL includeExpired,
BOOL nevestFiret,
DWOPD site10 · 01;
                                                                                                                       sinciude *ecdetw.h*
include *etcrem.h*
include *objects.h*
include */d/coolkit/db.h*
include */d/coolkit/db.cli.h*
include */d/coolkit/dbcil.h*
include */d/coolkit/dbcol.h*
include */d/coolkit/dbool.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BOOL loadads (Adarreys ads.
DNORD advertiserID.
BOOL (orfargeting.
                                                                                                                                                                                                                                                                                                   extern CriticalSaction fasts
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void massage(const char *);
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                                                                       // eqldb.cpp
                                                   1070 CO
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atreatisql, " not exists (select " from approved where site_id-"); add/aluc(sql, approvesite1D, FALSE); streat(sql, ond ad_id-id););
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // If for debug, don't load. You can make this test a registry // secting if you like so that you can load debug records, or // add a cond line setting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               time t novi
rs.ad.startime . time(snow);
rs.ad.startime . rs.ad.startime . 60 . 60 . 24 . 30;
rs.ad.endTime . rs.ad.startTime . 60 . 60 . 24 . 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rs.ad.startTime - time(thow) - 60 · 60 · 24 · 15;
rs.ad.endTime - now · 60 · 60 · 24 · 15;
19-Jen-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rs.ad.startTime - rs.ad.endTime - 0;
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local ToUCT (rs.ad.endTime);
                                                                                                                                                                                                                                                                                                                                                                                                                                                errcat(sql. * advertiser**);
addvalue(sql. advertiserID, FALSE);
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streat(sql. * order by id desc*);
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local ToUCT (rs.ad.endtime);
                                                                                                                                                    sercat f sql. * active.* };
addvalue(sql. active, fALSE);
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// defaults in case null re.ed.[lags - 0]
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streat(9q1, " where');
                                                                                            streat(sql. " where");
                                                                                                                                                                                                                                                          jf( advertiserID ) {
  if( where ) {
    streat(sql, " and");
  } eise {
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bresk:
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                           80.000.CPP
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man.impressions.f.shown.datediff(ss. '1/1/70', start_timal-datediff(ss. '1/1/70', end_timal-datediff(ss. '1/1/70'), end_timal-datediff(ss. '1/1/70', end_timal-datediff(ss. '1/1/70'), end_timal-dated
                                 Page 3(0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              where all delivered
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// if forfargating, update AdintargatSites to reflact
// if forfargating, update AdintargatSites to reflact
// include where enddate has past or where all dollver
// include where enddate has past or where all dollver
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// order from newest to oldest
// order from newest to oldest
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defaultAdeMode - TRUE;
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(f. GetLocalimitationally
gmt.tm.hour +* 24)
uctofs * (gmt.tm.hour * 1ocalitm.hour) * 60 * 60)
                                                          19-Jan-1996 10:13
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ad-strottine . now . 60 . 60 . 24 . 15;
ad-itlatenae . (n;
ad-itmpTo . jumpTo;
ad-idupTo . jumpTo;
                                                                                                                                                             starream defadit-ci\\lan\\detault_ads.txt");
iti idefads.is_openi) | |
ASSENT(FALSE);
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Crime t o Crime: GetCurrentTime():
tm gmt, local:
t.OxContTim(sgmt):
                                                                                                                        static void makeDsfaultAds(AdAfrays ads)
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gacconfigualue(*Active", active);
Advursor re;
char eqiliboo)
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DWOAD approveSiteID
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000L loadAds!Advreys ads.

DWOND advertieriD.

DOOL fortarget!ng.
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iii ein == 0 l
break:
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defaultAd . tad!
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char folizal)
char fumpto(128);
·fn - 0;
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Page 4(8)

しつといいいいいけい

DC 069510

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Cursor ci
cursor ci
cursor ci
chind (20, C_LONG, interest_id (from placement_sitecats where ad_id=")
addvalue[sql: ad.id, FALSE:
addvalue[sql: ad.id, FALSE:
c.eser[sql: ad.id]
int n c;
while (c.fetchwart[) } {
if (ad.siteCategories.isEmpty[) }
ad.siteCategories.initNeshTable()?)
                                                                                                                                                                                                                               C.bind( SQL_C_LONG, apagetb, sixeo((nagetb) );
c.bind(SQL_LONG, sinclude, sixeo((include) );
char sql(St2) = .eslect page_(d.include (rom placement_pages where ad_ld=";
addvalue(eq1, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c_bind(50L_C_LONG, in, siteo(in));
char sql[51]; - "select count(*) from placement_sics where ad_id-";
addvalue(sql, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     message ("Increase AdiisticCategories hash site");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  message ("increase Adiitarget Pages hash site")!
19-Jan-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ad.siteCategories.SatAt UnterestID, TPUEl;
                                                                                                                                                                                                                                                                                                                                                                     c.exec(sq));
int n = 0;
while ( c.fetchWaxt() ) {
    if nd.tergretPages.isEmpty() ) {
        if nd.tergretPages.intitieshTable()));
        ad.tergretPages o include:
        ad.includerPages o include:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ad.targetPages.SetAt (page10, TPUE);
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fort | . 0 | . ads.GetSize(); | . 0 |
fort | ads.GetArt();
if | ind.isTargeted() |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // load site/page cetegories
fort i - 0; i - ada.Cetsite(i) i - 0; i - ada.Cetsite(i) i
Ada ad - ada.Cetx(ii) i
i (i nd.isfargetedi) i
                                                      // load pages to include/exclude (orf i • 0) i < ads.GetSixe(); i·· ) { Ads.bd · ads.GetAt()) } if ( iad.lsTargeted() }
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i( ic.fetchWext() )
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Cstring aicr
c.bind(sici
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                                                                                                                                                                                         DNOPD page 101
                                                                                                                                                                      continue,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :
                        $GLDD.CPP
                              PAG. 5(8)
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if (ad.targatSites.GatCount[] -- 0 )

if aince map is empty, will go to all sites.

// which le wrong. Deactivate.

// which le wrong. Deactivate.

ad.startiime = ad.endiime = 0;

message( CString(*erfor, no sites allowed for *) * ad.fileName );
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BOOL include:
CVEOR C.
CVEOR C.
CVENDE SOL_C_LONG, selecto, elseof(enclude) );
CVEOR C.
CVENDE SOL_C_LONG, enclude, elseof(enclude) );
CVENDE SOL_C_LONG, enclude, elseof(enclude) );
CVENDE SOL_CONG, enclude, elseof(enclude) com placement_elseof(enclude);
addVelue(eq), ad.1d, PALSE);
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cher sql[52] = "select site_id from placement_banned where ad_id=";
addwaise(sql, ad.id, PALSE);
                                                                                                                                                                                                                                                                                                                 ada. Addiad);
if i defaultad .. 0 sa ad. >type i. Adi.Test &s ied. >isTargeted!) }
defaultad - ad;
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Load alto eaclusions of placements. If eaclude this ad,

// Load alto eaclusions of placements. If eaclude this ad,

// and AdivinciudeSites is TRUE, remove alto (row map. If

// and AdivinciudeSites is TRUE, add this

// eaclude this ad, and AdivinciudeSites is PALSE, add this

// ele to the map.

(or int i = 0, i + ada.GatSite(); i + ) {

Ada ad = eds.GatAtili;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-Jan-1996 10:15
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while c.fetchMart!) {
   if ad.ergetBites.inEmpty!) {
        ad.ergetBites.inEmpty!);
        ad.ergetBites.inItManhtable(37);
        ad.includeSites - FALSE: // exclude
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ad.targetSites.SetAt (siteID, TRUE);
                                                                                                                          Ad and o new Adire.ad)!

ad-scales!!ii
iii ad-sid -p cBadKeyAdiD & Cortargeting ! (
dalate badKeyErrorAd;
badKeyErrorAd o ad!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int n = 0;

while (c.fetchWart()) {

if ad.tafgetSites.leDmpty()) {

ad.tafgetSites.initHeahfable());

ad.includeSites - include;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // load sites to include/exclude
forf int i = 0; i < ads.GetSize(); i < ) {
    Ads ad = *ads.GetAt(i);
    If i i ad.iff regetad(i) }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ad.targetgites.SatAtisiteID, TRUE),
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                                                                                                                                                                      if( ada.GetSize() -- 0 it (orTargeting ) {
   // db connection down, use some default ade
   nakeDefaultAdelade);

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return ads. Cat Size() i. 0 to default Ad 1. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TPACE("no default ad\n");
message("no default ad\n");
                                                                                                                      SQLOB.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cursor C:

WORD Country:

WORD Country:

In areaCode, sit of (country) | 1

C. bind(sto):

Asiac Country, state, slpcode, areacode (rom placement_locations where od outside the state):

C. bind(sto):

C. bind(sto):

Advalue(sq):

Asiac Country, state, slpcode, areacode

C. asiac (row):

Advalue(sq):

Asiac Country, state, slpcode, areacode

C. bind(sto):

Advalue(state):

Adval
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if n > 100 t
message(*>100 locations targeted*);
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-- stpCode - stp:
|-- steaCode - steaCode;
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rage 2(4)
                                                                                                                                                                                                                                                                                               // cotal n bytes read
                                                                                                                                                                                                                                 iff (p . stratr(buf, *\t\n\r\n*)) | . 0 ) |
const char *c] . stratr(buf, *Content-lengthi*);
         16-Jen-1996 14:03
                               char Bufleh - 12768;

char buflil - 0;

lit n - 0;

cont char - 0 - buf;

in Content-length

in Content-length

in Content-length

while 1 i {
                                                                                                        alse iff straicmpibut, "post", 51 -- 0 1 {
                                                                                                                                                                                                                                                                                                                                                                                                                                                   salse iff mirnicmpibut, thead .. 5) .. 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        else if ( err .. Connection: PeadGrr ) | message ( empty request, readerr ) ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else iff err .. Connection: Timeout !! message | empty request, timeout !!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            menaage('empty request, err-Ox:');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             clac ( sentherorte, son Not implemented );
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                                                                                                                                                                                                                                                                                                                                                                                                                   Const char 'r · buft if atraicmpibut, "get ', 4) ·· 0 ) {
                                                                                                                                                                                           | [ 0 -- pead .. 0 ] [
                                                                                                                                                                                                                                                                                                                                                                                                           Verb v . UNKNOWH,
                                                                                                                                                                                                       // error
                                                                                                                                                                                                                                                                       1( (10)
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                 BERVER.CPP
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                     Page 1(4)
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yeld sendError(Connaction ·c. const char ·msg. const char ·headerfield) Contentien; etrlen(cErrTrailer); etrlen(cErrTrailer); etrlen, buf, 10); etrlen(cFrrTrailer); DC 069512 vold morvicePequest (Connection ·c. const mockaddr_int from) // itt laddromaDkifrom) // const char chtrpver[] - "HTPP]1.0 ", const char ccontent[ani] - "Content-langth! ", const char cfrreader[] - "Ahi>Error", const char cfrreailer[] - "Ahi>", const char cfrreailer[] - "Ahi>", 16-Jan-1996 14:03 e.weitel iconst char .) a. a.CatLength()); BOOL addressOxiconst sochaddr_ine (rom) include -/d/toolhit/sock.h. include -/d/toolhit/maputate.h. include -/d/toolhit/tsutil.h. sinclude "request.h" sinclude "montrequest.h" void message(const char ") () void grburge(1) binclude */d/toolkit/crit.h* extern CriticalSection (aet/ extern int niietenerThreades old messagiconst cher '); sall defined [AP] pinciude 'request.h' cinciude 'infrequest.h' CString . . CHTTPVeri . .. headerfleld: finclude 'getrequest.h' // IAF network return TRUE: .. cerresiler return FALSB! char buf [10] ! ofetreem errtogs // server.cpp BERVER, CPP sinclude :

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Page 4(4)
                                                                                                                                                                                                                                                                                                                  for( int i . 0; i entistenerThreads; i.. ) {
    Sleep(100); // [dam] this is a test; sometimes it doesn't listen right, just a hunch
    Akaneginthread( listenerThread, 0 );
                                                                                                                                                                                                                              #if defined(_ADSVP)

errLog.open[cc/lan/errlog.txt".
errLog.open[cc/lan/errlog.txt".

filebuf::#h.read1

ASSERT[ errLog.is_open[l ] 1

errLog << "...... ad server started\n"; errLog.flush[l.)

#cndif
     16-Jan-1996 14:03
                                                                                                                                                                                                             listener - new Listener(port);
i(i listener-rok() ) {
                              HIE defined[PORT]
                                                                         else
breski
                                                                                                                                                                                                                                                                                                                                                                                             ASSERT (FALSE)
                                                                                                                                                                                          port - 80,
                                                                                                             )
return TRUEs
                                                                                                                                                                                                                                                                                                                                                                                                                 return TRUE,
                                                                                                                                                                         Int
               Page 3(4)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       it defined(_AbsvR|
it iopenible() |
Atweesegema("Error opening tables");
recurn FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                while [ 1 ] {
    char bu(1256);
    int n = c.read(buf, 255);
                                                                                                                                                                                                                                  etetle DMORD ed . GetfickCount();
erand( ed+. );
                                                                                                                                                                                                                                                                                                                         Crit c((ast);
int x - +-nThread;
if( x > maxThreads)
maxThreads - x;
                                                                                                  Hymikequest gric, v. r. from):
                                                                                                                                                                                                                                                                                                                                                                             serviceRequest(c. from):
delete c:
                                                                                                                                                                                                                                                                                                                                                                                                          Crit C(feet):
nthread--:
iid defined[AP]
// idle
                                                           Introquet gric, v. r. (rom),
Introducet gric, v. r. (rom),
Getnedi Andyn,
Getnedie gric, v. r. (rom),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mapstateInit();
initCountryTimeZoneTable();
iendif
                                                                                                                                                                                                                    JINT 11stenerThread(LPVOID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  drPurge ()
                                                                                                                                                                   Liscenar "listener - 01
                                                                                                                                                                                      tail; othered ~ 0:
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gr.service();

BERYER. CPP

BOOL startServer()

) return 0.

Bendi

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// add to DB
char buil 1995] •
- insert users (ip, browser, bverl, bver2, os, domain_type. is_proxy, is_networkdesc, (tp_tried.h.
atroat bui, • values (*);
addoinvalue bui, 19);
Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     User ou a new User:
UserCursor Cidb, u);
C.minimalhindi);
C.minimalhindi);
C.bindt SUL_LONG, su-sureriD. 4 );
C.bindt SUL_LONG, su-sureriD. 4 );
C.bindt SUL_LONG;
C.bindt SUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              User* Verrii_lookupUserByAddress(Database& db, DMORD ip, BOOL *timedOut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSEPT( name.lsEmpty() is title.lsEmpty() is emailAddr.lsEmpty() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        char bul(136); "update users set (tp_tried=1d where id=11d", waprint(ibut, "update users of userio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void UseriiupdateFTPTricd(Databases db)
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addBool(buf, ieMetworkDemcription);
addBool(buf, (tpTried);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vold UseriimakePermanent (Databasch db)
                                                                                                                                                                                                                                                           | clear | clea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else iff ic.fatchWeatf) } {
delete u;
u - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              addvalue(buf, osl:
addvalue(buf, domainType);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if tempuserobject[] | {
ASSERT[FALSE];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    addvalue(buf, browner);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff c.timedout 1) {
   timedout TRUE;
   delete u;
   u = 0;
                                                                                                                til c.timedout() ) {
.timedout - TRUE;
delete ur u - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  db.exec(bu() r
db.comm(t() r
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return us
                                                          USERS. CPP
                                                                       Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HIGHLY
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if timedout i= 0 )
c.estimeOut(1);
c.estimeOut(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DC 069514
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-{-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if( userID == 0 ) {
    fry to get domain info at least. Note: if user is uniquely
    // fry to get domain info at least. Note: if user is uniquely
    // identifiable, derive data process will create a rocord for the
    // user as soon as it gets a chance.
    user as soon as it gets a chance.
    user is networkHodeTable.getUserIdIjustHotworkNumbor(ip), TRUE);
    userip = networkHodeTable.getUserIdIjustHotworkNumbor(ip), TRUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char adlibbl;

char adlibbl;

usprint(id);

c.asciagli |

c.asciagli |

db.comit(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // just gets field that aren't derivable from request header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DWOND userib . networkHodeTable.getUserIDiip. FALSE);
                                                                                                    19-Dec-1995 16:52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bind( 50L_C_LONG, su->ftpTried, sizeof(BOOL) ),
bind( 50L_C_LONG, su->hssCookie, sizeof(BOOL) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VeerCursor (Databases db. Veer ._u) , Cursor (db).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void User::lookupAncillaryInfo(Databases db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 user. Usares lookupUsarByAddress(DMGRD 1p)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / implementation for hash tables userID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return _lookupusarnylD(usarlD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           class VeerCursor : public Cursor
                                                                                                                                                                                                                                                                                                                                                                                sinclude -/ditoolhit/db.h-
sinclude -/d/toolhit/lef_util.h-
sinclude -/d/toolhit/dbutil.h-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    User ou . new User,
UserCursor c(db, u),
c.minimalBind(),
char eq!(128),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            User to a new Users
return us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if cuerib )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return 01
                                                                                                                                                                                                             // weere.cpp
                                                                                                                                     USERS.CFP
```

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HIGHLY CONFIDENTIAL

```
char buf(512) - 'Insert sitepages(junk, keyname, site, categorized) values(''.'')
addvalue(buf, keyname!)
addvalue(buf, (int) site1D)
atreat(buf, (int) categorized, PALSE);
atreat(buf, ')';
if(db.categorized, buf)
if(db.categorized);
if(db.catego
                                                                                                                                                                                                                                                              int approved • 0;

Curean cdb;

Curean cdb;

c.bind(SOL_C_LONG, bapproved, sixeo(iapproved));

c.bind(SOL_C_LONG, bapproved, sixeo(iapproved));

c.bind(SOL_C_LONG, bapproved (rom sites where keyname-'';

Csring ad - select id.approved (rom sites where keyname-'';

c.cac(eq1);

i(i approved - 0 ) {
    i(i approved - 0 ) {
        message(CString('unapproved site; ') · (rom );

        message(CString('unapproved site; ') · (rom );

}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.bind(SQL_C_LONG, sid, 4);
e.bind(SQL_C_LONG, sid, com sitepages where keyname.");
addvalue(buf, keyname, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              p . 0;
if[ idefaultAdsMode }
if[ idefaultAdsMode } . from ];
                                                                                                                                  // bidn't find the page. Add page if aire is correct
{
20-Jan-1996 10:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vold SitePageriadd[Databases db. const char 'kcyname)
                                                                                                                                                                                                                   CString eltekey(from. q . from):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 p.saddidb. keyl!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              If 1 1C. fetchNext () )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSERT (FALSE) I
TPACE(8) I
message(8) I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cursor cidb),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             c.exec(buf) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) ::(0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return Pa
                          SITEPAGE.CPP
                                    Page 1(2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SitePage* SitePage::lookupPage|Database& db. const char *from, const char *requestRdr!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cursor ci
c.bind(50L_CLOMO, binterestID, sissot(interestID));
the sellio31 - select interesta_id from paga_cstegories where paga_id-";
addysluc(eq), Jd. FALSEI;
addysluc(eq), aution all select interesta_id from site_cstegories where site_id-");
addysluc(eq), alteID, FALSEI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DC 069516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *salect id.site.categorized from sitepages where keypomes*?
c.onecleq1. key. PALSE1?
iii c.onecleq1)
iii c.occimuaxt! ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if ( key. GetLangth() > 64 ) truncate to column width key - key. Leite (64); // truncate to column width
                                                                   20-Jan-1996 10:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cursor c(db);
c.bind(SOL_C_LONG, 6p-sid, 4);
c.bind(SOL_C_LONG, sp-selves), 4);
c.bind(SOL_C_LONG, fp-selves), 4);
c.bind(SOL_C_LONG, fp-selves), 4);
chaf sql[lo24]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iff straignpliton, "www.", 4) .. 0 )
from .. 4?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // from hey format: sitchey/docname
iff from -- 0 }
return 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            const char "q . strchr(from, '/'))
[[[ q -- 0 | strlen(from) > 75 ]
return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    while ( c. (etchWesti) } {
    catagories.Add(interest(D))
                                                                                                                                                                                                                                include estdatah*
sinclude objectah*
sinclude objectah*
sinclude odjecoblitc/db.h*
sinclude odjecoblitc/ist_util.h*
sinclude odjecoblitc/ist_util.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sitepage op . new Sitepages
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vold SitePage: JoadCategories!
                                                                                                                                                                                                                                                                                                                                                                                                        void message (const char 's)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           extern DOOL defaultAdeMode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 id - 0;
eitelD - 0;
categorized - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    161 -trom -- 0 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DWORD InterestIDs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SitePager:SitePage()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CString keys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C. BREC(8q1);
                                                                                                                                                      // altepage.cpp
                                                                                          SITEPAGE.CPP
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Page 2(2)

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Page 2(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      char buf1256];
waprintflbuf, "tald.gif", (const char ") [i]eMnmm.Lcft( fileMamm.GetLength() " 4), seriesMe*
return buf;
                                                                                                DWORD span . timefat! . startTime; iff span .. 0 | span . 1:
        19-Jan-1996 15:58
                                                  time t t)

Duding total Span - end Time - etert Time;

If total Span - 0 i

total Span - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff timageSeries || seriesNext <- 1 )
return fileName!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           raturn gifaRootDir . getFileName();
                                                                                                                                                                                                                                                                                                                                                                                                                 started - PALSEr
(lags - Production | SpreadEvenly:
                                                                                                                                             (double) (fidouble) nShown / (double) span / cocalSpan) maximpressions) * 1000);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  domainType - DefaultHask;
lsp - DofaultHask;
hoursoftby - Oxffffff
ncmployees - DefaultHask;
galesVolume - DefaultHask;
gender - DofaultHask;
seriesNoxt - 0;
                                                                                                                                                                                                                                                                                          // // update SI
// // update SI
// // calcsi()
// )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CString AdiigetFileName()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nSICCodes - 0;
frequency - 0;
ImageSeries - PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CString AdmitullHame!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          naximpressions • 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #16 idefined(_ADSVP.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IncludeSites . 01
                                                                                                                                                                                                                          void Adiishown()
                                                                                                                                                                                                                                                                   #Shown + #
                                                                                                                                                                                                                                                                                                                                                                                       Ad: :Ad!)
                    Ab.C?
                        Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               neled.maximpressions), mShown(ad.mShown),
d.mlocations), mSfCcodem(ad.mSlCCodom),
f.magaSorica(ad.magaSorica),
d.magaSorica(ad.magaSorica),
d.magaSorica(ad.magaSorica),
d.magaSorica(ad.magaSorica),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HIGHLY
CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aliad.ai), flagatad.tlaga;
houreofbay(ad.houreOfbay), dayeotweekiad.dayeofWeek),
hmployesaiad.nomployesa), aslesVolume[ad.aslesVolume],
gendariad.gandar), adosertption(ad.adosertption),
maxmount (ad.maxmount), aspoNumberiad.asroNumber),
active(ad.active), includeSites(ad.includeSites),
includePages(ad.includePages), approved(ad.approved),
nJumps(ad.nJumps)
                                                                                                                                                                                                                                                                                                                                                                                                                      // vq
                                  19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ad. (!lewame). jumpTo(ad.jumpTo).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DC 069517
                                                                                                                                                                                                                                                                                                const Estring gileRootDir . 'c:\\lan\\ads\\''
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             locations = 0;

iff nboations ) {
locations - naw RegionIntocations; }

cort int 1 = 0; i < nbocations; i+: )

locations[i] = ad.locations[i];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         elcCodes[1] - ad.elcCodes[1];
                                                                                                                                                                                                                                                                                                                          alf idefined(_DERIVE)
int nAdei) { return ade.CetSite(); }
Rendi(
                                                                                                                                                                                                                   linclude "/d/toolkit/db.h"
finclude "/d/toolkit/dbutil.h"
finclude "/d/terive/dqidarivo.h"
finclude "/d/termadorivo/eig.h"
finclude "romemborod.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff maximpressions -- 0 ) return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acripSpaces (fileName);
acripSpaces (jumpTo);
                                                                                                                                                                                                                                                                                                                                                                                              extern Database lafmains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    delete(| locations/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AdiiAdiconst Ads ad)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void Adiicalest()
                                                                        // •4.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              () PY-11PY
                                              5.0
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100 4(3)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  addvalue ( buf. maximpressions );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        but, addescription ),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                buf, frequency );
buf, frequency );
buf, imageSeries );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    buf, browser 1:
buf, domaintype 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  buf, hoursofbay 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Don't update max_impressions if this is a barter ad. PEP.EKE credits the placement so we don't want to averwrite the larter credits (type is Barter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               addvalue( buf. a
addvalue( buf. a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       addvalue! buf.
      19-Jan-1996 15:58
                                                                      Cursor Cr
C.bind SQL_C_LONG, 1441D. 4 11
strepy! buc. "select max(id) from placements" 1;
c.seec! but 1;
c.ferchlext[i]
isfmain.commit();
                                                                                                                                                                                                                                                                                                                                             P
                                                                                                                                                                                                                                                                                                                                                                                                          // Pe-determine if the ad is tergeted double deendcat . CalculateCostPerAdil! if (dPerAdCost .. DASE_AD_COST)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               strcpy! but, *update placements set * 1;
                                                                                                                                                                                                                                                                                                                                        // To update an ad, we delete the dainting // and re-book it. | | [ [ [remove( FALSE ]) ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        streat ( buf, "max_impressions." );
                                                                                                                                                                                                                                                            returni AddPlacementTables( adiD ) };
                                    // Cat the 10 of the nawly added ad int adio . 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              buf, "image_series-" );
buf, "(lage-" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hours of day. 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              description. );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         buf, "domainType-" 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      employees. );
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if (etartlime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             buf, "filename-" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 streat but. 'jumpto.' 1:
streat but. 'type.' 1:
streat buf. 'os-' 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        but, "browser." );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   flags . AditTargetedi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (lags |- Adrifergeted)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char buffi0241;
char sztimef 10 l;
                                                                                                                                                                                                               . ASSERT( 0 );
return( FALSE );
                                                                                                                                                                                                                                                                                                            DOOL Advivpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEFCAL (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           etreat (
                                                                                                                                                                                       (Q10*1) 31
               AD.CPP
                                                                                                                                                                                                                                                                                    atrcpy( buf, "insert placementa(jumpto,max_impressions.type.ps.browser.domainType.lsp.frequa-
lange_seriee.advertleer.flage.houre_of_day.days_of_week.amployees.sales.doscria-
"max_amount.po_number.gender.act.tve.approved.fliename" );
               Page 3(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          strictime( satime, 9, *tm/td/ty*, gmtime( sstartfine) ); streat but, *.* ); addvalue( but, satime, PALSB );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        atritime(.extime, 9, *\m/1d/\y*, gmtime( &endTime ) }
atract( but, ".");
addvalue( but, extime, PALSE );
                                                                                                                                                                                                       // If this is a barter ad, set max_impressions - to 1
if (type -- Barter)
                         19-Jen-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 addvalue( buf, approved );
addvalue( buf, fileHame, FALSE );
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streat( buf, ", start_time" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                          maximpressions );
type );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           daysolweek 1;
nEmployees 1;
salesvolume 1;
addescription 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         frequency );
imageSeries );
advertiseriD );
                                                    BOOL AdiiBook! DWORD advertiserID
                                                                                                                                                                                                                                                                                                                                                                                    if [andTime]
etrest but, ".and_time" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ir (ietmein.exec( but ) i- 1) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    browser 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            soursotbay 11
                                                                                                                                                                                                                                                                                                                                                                                                                  elecati buf. ") values!" );
                                                                                                                                                                                                                                                          maximpressions - 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 JumpTo 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ASSERTE 0 1, returni PALSE 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                streatt buf. ")" );
                                                                                                                                                    ASSERT( 0 );
return( PALSE );
                                                                                  char bufild24(;
                                                                                                                         if (ladvertimerID)
                                                                                                                                                                                                                                                                                                                                                                                                                                        addvaluet but, 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (andTime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (startTimo)
                                 8.0
```

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Page 6(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               waprint(| buf. "insert placement sitestad_id.site_id.include; values[1d.1d.1d]".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              waprint( buf. *insert placement_interestated_id.interest_id) values(id.id)*.
                                                                                                                                                                                                                                                                                                                                                                                         vaprint(| but, 'insert placemont_sitecate(ad_id.interest_id) values(td,td)',
adio, dwinterest10 );
                                                                                                                                             waprint(| buf. "insert placement_sicated_id, siccode) values(1d, '\e')".
adio, siccodes( ntoop |.astaxt() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           siteCategories. GetMextAssoc( pos. dwinterestio, bJunk );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interests.GetNextAssoc( pos, dwintercstif, bJunk ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  targetSites. GetNextAssoci pos. dusitelD. blunk 1;
          19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (i.d.mitin.caecf but ) (- 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (latmain.exect but ) to 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                       if (latmain.oxecf but 1 1- 1)
                                                                                                                                                                                          if listmain.exect but 1 to 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSERTÍ O )!
brc = FALSE!
break?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ASSERT( 0 );
bpc = false;
break;
                                                                                                                                                                                                                      ASSERT( 0 );
bac • False;
breek;
                                          bRc • FALSE!
break!
                                                                                                                                                                                                                                                                                                                                                       Sunk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       while (pos)
                                                                                                                                                                                                                                                                                                                                                                     while (pos)
                           AD.CP
                              Page 5(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CONFIDENTIAL
                                                                      serfelmel artime, 9. **m/1d/1y*, gatime( astartline ) ); addvalue( buf, satime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DC 069519
                                                                                                                                                                                                   atricine attime, 9, "im/ld/ly", gmtime ( LandTime ) ), addValue ( buf, astime, PALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (locations intoop).country) addvalue(but, locations intoop).country); if (locations intoop) attac lashpey(1) addvalue(but, locations intoop) attac lashpey(1); if (locations intoop) attachoop) attachoop addvalue(but, locations intoop) attachoop) attachoop attachoop); if (locations intoop) area(ode)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    addvalue! but, locationsinLoopi.areaCode li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for (int nloop • b) nloop « nlocations, nloop••) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   stropy but. .insert placement_locations(*');
                                         19-Jan-1996 15:50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (locations/nicop).country)
streat buf, "country." );
streat buf, "country." );
streat buf, "state." );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  streat( buf. "ad_id) values(" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BOOL AdiiAddPlacementTables ( DWORD adID )
                                                                                                                                                                                                                                                                                                                                                                                                             returni AddPlacementTables( id ) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  it tiotmain.onoci but 1 1- 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              addvalue( buf. adiD, FALSE );
etrcat( buf. ")" };
                                                                                                                                                                                                                                                                                                                                          if (letmain.exect but ) !- 1)
                                                                                                                                          street( buf. .(null)." )!
                                                                                                                                                                                                                                                                                                         atreat! buf. "where id-" };
addvalue! buf. id, PALSE };
                                                                                                                                                                                                                                                                      streat ( buf. "(null)" );
                                                                                                                                                                             ecreat ( buf, "and_time.");
it (andTime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSERT( 0 );
                                                                                                                                                                                                                                                                                                                                                                     ASSENT( 0 );
return( FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                     return( FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char buff1024);
BOOL bRc - TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  while (TRUE)
                                                                                                                             :
                                                         6.0
```

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Page *(9)
                                                                                                                                                   tee table
                                                                    daysofweek - Da7ft
flagm - Production | SpreadEveniyt
                                                                                                                                                                                                                          if (biemovePromplacemente)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hoursofbay onifffffi
nsmployees - DefaultHask;
salesvolume - DefaultHask;
gender - DefaultHask;
includeSites - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             domainType - DefaultMask;
isp - DefaultMask;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        . DefaultMasks
                                                                                                                                                                                                                                                                             ASSEPT( 0 ):
DRC - FALSE:
break:
                                                                                                                                                                                                                                                                                                                                                                                    irequency - 01
imageSeries - FALSE!
maximpressions - 01
                                                                                                                                                                                                                                                                                                                                                                                                                                #2PONumber.Empty();
                                                                                                                         bRc - FALSE:
break;
                                                                                                                                                                                           ASSERT( 0 );
bpc • FALSE;
bresk;
                                            ASSERTÍ O 11
bec • false!
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                  os - DefaultMask;
browser - Default
                                                                                                                                                                                                                                                                                                                                istmain.commit();
return( bRc );
                                                                                                                   ASSERT( 0 ),
                                                                                                                                                                                                                                                                                                                                                                                                       type - Normali
domainType - 0:
                                                                                                                                                                                                                                                                                                                                                       void Adrifeset!)
                                                                                                                                                                                                                                                                                                               break
          AD.CF
           Page 7(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                      CONFIDENTIAL
                                                                                                                      waprint( but. *insert placement_pagestad_id.page_id.include) values(td.td.td)*.
                                                                                                                                                                                                                                                                                                                                                                                                                           DC 069520
                                                              targetPages.GetMextAssocf pos. duPage1D, bJunk 1:
                 19-Jan-1996 15:58
                                                                                                                                                                                                                                                 BOOL AdirRemove ( BOOL bRemoveFromPlacements )
                                                                                                                                                if flatmain.exect but 1 1- 1)
                                                                                                                                                               ASSERT( 0 );
brc = FALSE;
break;
                               ASSERTÍ O 11
brc - FALSE!
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABBERTÍO 1:
bre - Palse:
break:
                                                                                                                                                                                                                                                                                                                                      ASSERTÍ O )!
DRC • FALSE!
Breek;
                                                                                                                                                                                                                                                                                                                                                                                                            ASSERT! 0 1.
DRC - FALSK!
Dresk! |
                                                                                                                                                                                                                          seturni bac 11
                                                                                                                                                                                                                                                                cher buf (1024);
BOOL bRc - TAUE;
                                                                                                                                                                                                                                                                                    while (TRUE)
```

Dreak!

AD.CPP

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